D-myo-Inositol-1,4,5-triphosphate trisodium

Cat. No.: HY-103642A

CAS No.: 141611-10-1

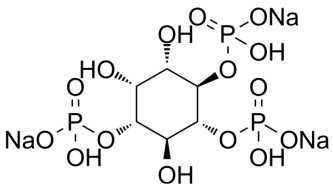
Molecular Formula: $C_6H_{12}Na_3O_{15}P_3$

Molecular Weight: 486.04

Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	D-myo-Inositol-1,4,5-triphosphate sodium salt is the hexapotassium salt of D-myo-Inositol 1,4,5-trisphosphate (1,4,5-IP3), which is a second messenger that stimulates the discharge of calcium from the endoplasmic reticulum.
In Vitro	Second messenger D-myo-Inositol 1,4,5-trisphosphate (1,4,5-IP3) is served as an inositol phosphate derivative. The dissociation constant (K_D) for $Pr55^{Gag}$ complexed with D-myo-Inositol 1,4,5-trisphosphate (an inositol with divalent phosphate groups and devoid of lipid groups) is 2170 μM. The binding affinities of D-myo-Inositol 1,4,5-trisphosphate (K_D =568 μM) and 1,3,4,5-IP4 (K_D=526 μM) for matrix (MA) are almost identical[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Asian J Androl. Mar-Apr 2020;22(2):192-199.

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REFERENCES

[1]. Anraku K, et al. Highly sensitive analysis of the interaction between HIV-1 Gag and phosphoinositide derivatives based on surface plasmon resonance. Biochemistry. 2010 Jun 29;49(25):5109-16.

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